

L 46310-66 ENT(m)

ACC NR: AP6019631 (A, N) SOURCE CODE: UR/0048/66/030/002/0343/0348

AUTHOR: Mikhaleva, T.N.; Zazulin, V.S.; Chuprunov, D.L.; Titov, V.I.

S

B

ORG: Scientific Research Institute of Nuclear Physics, Moscow State University im. M.V. Lomonosov (Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta)

19

TITLE: A scintillation spectrometer with charged particle discrimination /Report, Fifteenth Annual Conference on Nuclear Spectroscopy and Nuclear Structure, held at Minsk, 25 January to 2 February 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 2, 1966, 343-348

TOPIC TAGS: scintillation spectrometer, gamma spectrometer, proton, spectrometer, alpha particle, spectrometer, gamma ray, ~~gamma~~ background, proton, alpha particle,ABSTRACT: There is described a scintillation spectrometer employing a single CsI(Tl) crystal and a single photomultiplier with which pulses due to α rays, protons, and α particles can be distinguished, identified, and recorded in different channels of a multichannel pulse analyzer, depending on the energies of the particles producing them. The technique for identifying the particles is based on the fact that the current pulse on a dynode of the photomultiplier has the form of a decreasing exponential, of which the time constant depends on the nature of the particle producing

Card 1/2

L 46:10-66

ACC NR: AP6019631

the pulse. An electronic circuit for performing the identification is described in some detail. With the described circuit it is possible simultaneously to record α particles, protons, and γ rays, to record only α particles and protons in the presence of a γ -ray background, or to record only α particles in the presence of protons and γ rays, and to accumulate the pulses in different channels of a pulse height analyzer depending on the energies of the particles. When several kinds of particles are recorded simultaneously, however, a single channel of the analyzer corresponds to different energies for the different kinds of particles. The instrument was tested by recording the α particles, protons, and γ rays from an aluminum target bombarded with 6.6 MeV protons, and the recorded spectra, as well as discrimination curves, are presented. The instrument has proved to be satisfactory in some 18 months of operation. Orig. art. has: 6 figures.

SUB CODE: 20,09

SUBM DATE: 00 ORIG. REF: 002 OTH REF: 005

Card 2/2 afs

CHUPRUNOV, F.I., mashinist teplovoza

How to ensure continuous operation of the KPM-220 diesel
locomotive contactor. Elek. i tepl. tiaga 3 no.3:34-35 Mr '59.
(MIRA 12:5)

1. Depo Chu, Kazakhskaya doroga.
(Diesel locomotives--Electric equipment)

CHUPRUNOV, G. D.

Chuprunov, G. D. - "Directional distortion of mine shafts in drivings," In the symposium:
Nauch. raboty studentov gorno-metallurg. in-tov Moskvy, Moscow, 1949, p. 100-06

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

CHUPRUNOV, G. D.

"Effect of a Drilling Tool on the Speed of Drilling of Blast Holes
and the Coarseness of Boring Fines." Sub 29 Nov 51, Moscow Mining
Inst imeni I. V. Stalin

Dissertations presented for science and engineering degrees in
Moscow during 1951.

SD: Sum. No. 480, 9 May 55

Krinitsev, L. M.

CHUPRUNOV, G. D.

Stakhanov experience in working mines. Moskva, Ugletekhizdat . 1952. 42 p (54-18377)

TN275.05

CHUPRUNOV, Grigoriy Dmitriyevich, kandidat tekhnicheskikh nauk; KITAY-SKIY, Ye.V., redaktor; KOROVENKOVA, Z.A., tekhnicheskiy redaktor; IL'INSKAYA, G.M., tekhnicheskiy redaktor.

[Boring first holes in sinking vertical mine shafts] Burenie shpurov pri prokhodke vertikal'nykh stvolov shakht. Moskva, Ugletekhnizdat, 1955. 37 p.
(Shaft sinking) (MLRA 8:11)

Chuprunov, G.D.

POKROVSKIY, N.M., prof.; KATSAUROV, I.N., dots.; BARONENKOV, A.V., dots.;
CHUPRUNOV, G.D., dots.; NASONOV, L.N., dots.

"Vertical shaft sinking" G.V. Surmilo. Reviewed by N.M. Pokrovskii
and others. Shakht.stroi. no.12:32-33 '58. (MIRA 11:12)
(Shaft sinking) (Surmilo, G.V.)

CHUPRUNOV, Grigoriy Dmitriyevich, dotsent, kand.tekhn.nauk; VOLOVICH, M.Z.,
inzh., otv.red.; PETRAKOVA, Ye.P., red.izd-va; LOMILINA, L.N.,
tekhn.red.; KONDRAT'Yeva, M.A., tekhn.red.

[Mining and mine timbering] Provedenie i kreplenie gornykh vyra-
botok. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu delu,
1960. 532 p. (MIRA 13:5)

(Mining engineering) (Mine timbering)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

CHUPRUNOV, Grigorij Dmitrijevich; TRUPAK, N.G., prof., retsenzent

[Principles of rock stabilization] Osnovy uprochneniya
gornykh porod. Moskva, Nedra, 1965. 150 p.
(MIRA 18:7)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

L 01813-67 EWT(m)/T

ACC NR: AP6035634

SOURCE CODE: UR/0089/66/020/005/0432/0434

AUTHORS: Vasil'yev, S. S.; Mikhaleva, T. N.; Vorob'yev, Yu. A.; Chuprunov, O. L.

ORG: none

TITLE: Utilization of fast charged particle inelastic scattering for analysis
of composition of materials

SOURCE: Atomnaya energiya, v. 20, no. 5, 1966, 432-434

TOPIC TAGS: inelastic scattering, scintillation spectrometer, proton beam

ABSTRACT: The impurities in Al samples were analyzed by using a 6.6-Mev proton beam and a 100-channel scintillation spectrometer with Cs(Tl) as a proton recorder. The recording time for each angle of the scattered proton spectrum was 10 min at 2.0 to 6.5 Mev. The spectra obtained were then analyzed, and the proton elastic and inelastic scattering peaks from the Al nuclei were determined along with the scattering maxima of other nuclei. Impurities consisting of Ca, Mn, Si, and Na were found. The results were compared with neutron activation data on the Si impurity. Orig. art. has: 3 figures and 1 table. [NA]

SUB CODE: 20 / SUBM DATE: 18 Sep 65 / ORIG REF: 005 / OTH REF: 003

1/1

fv

UDC: 539.106

USSR.

Rectification of the grape raw alcohol. S. D. Chuprunov and N. P. Ivanova. *Vinodelie i Vinogradarstvo S.S.R.C.* 13, No. 9, 11-15 (1953).—The chem. compn. of raw alc. obtained from grape husks and waste yeasts (alc. a) differed greatly from the alcs. obtained from potato-grain mixts. (alc. b) or molasses (alc. c), resp.: alc. 20.6-52.0, 86.0-89.5, and 86.0-90.0 vol. %; titratable acidity, 1004-2230, 30.0-40.0, and 43.2-58.0; volatile acids 305.4-568.4, —, and — g./l.; org. esters 1925-3275, 300.0-431.8, and 390-500; aldehydes 100-290, 210-300, and 390-500; MeOH 0.21-0.40, and 0.20-0.38%. Usually, alc. a contains relatively high quantities of furfural. Owing to these differences in chem. compn., rectification of alc. a, when performed through the column constructed for the rectification of alcs. b or c, leads to relatively high loss (in av. 3.31%) of the raw alc. To prevent this loss a special rectification column has been devised, and is described. The main modification of the column is: after the 1st 3 fractions have been collected, 40% NaOH is added to the alc. a being distd. and to the column to neutralize residual org. acids and esters which block the column on further distn. This column yields 1st-quality alc. 81.2, aldehyde-ester fraction 2.6, 2nd-quality alc. 6.7, 3rd-quality alcs. 5.6 and 1.5, fuel oil 1, and loss 1.4% of the original alc. a. Chem. characteristics of the rectified alc. were: alc. 98.8 vol. %, org. esters 44, and acids 18 mg./l., and the time of decoloration of a KMnO₄ soln. 30-35 min., resp. E. Wiericki

IVANOV, Dmitriy Ivanovich; ZENCHENKO, Petr Mikhaylovich, tekhnolog; CHUPRUNOV, V.I., nauchn. red.; KAZAROV, Yu.S., red.

[Finishing work in shipbuilding] Iz opyta sudovykh dostroechnykh rabot. Leningrad, Sudostroenie, 1964.
74 p. (MIRA 18:1)

Chuprunova L.N.

KESHISHEVA, A.A., dotsent; CHUPRUNOVA, L.N.

Complications of gastroenterostomy. Khirurgiia no.7:55-57
J1 '55. (MLRA 8:12)

1. Iz fakul'tetskoy khirurgicheskoy kliniki (dir.-chlen-korrespondent AMN SSSR prof. B.V.Petrovskiy) II Moskovskogo meditsinskogo instituta imeni I.V.Stalina.

(STOMACH, surg.

gastroenterostomy, compl.)

(INTESTINES, surg.

same)

CHUPRUNOVA, O. V.

26

PHASE I BOOK EXPLOITATION

SGV/5742

Akademiya nauk SSSR. Muzhduvedomstvennyy komitet po provedeniyu Morskikh narodnogo geofizicheskogo goda. VIII razdel programmy IUG: Shiroty i dolgoty.

Predvaritel'nyye rezul'taty issledovaniy kolebaniy shirot i dvizheniya polusov tseli; stornik statey (Preliminary Data of Latitude Variations and Migrations of the Earth's Poles; Collected Articles. No. 1) Moscow, Izd-vo AN SSSR, 1960. 97 p. Errata slip inserted. 1,000 copies printed.

PURPOSE: This collection of articles is intended for astronomers, geophysicists, and other scientists concerned with the problem of latitude variations and the migration of the Earth's poles.

COVERAGE: Part I of the collection contains preliminary results of latitude observations from 1957.5 through 1959.0 made at IGY stations in the USSR network, including new stations in Siberia. Part II consists of articles describing new instruments, observational programs and methods, and procedures of processing the latitude observational data. With the larger number of stations and the use of new instruments it is anticipated that the final results will provide a more comprehensive study of anomalies and instrumental

Card-3/5

Preliminary Data of Latitude Variations (Cont.)

26
S07/5742

errors in latitude observations than has been possible previously. No personalities are mentioned. English abstracts and references follow each article.

TABLE OF CONTENTS:

Preface

5

PART ONE

Romanchaya, S. V., L. D. Kostina, and N. R. Andreyenko. Latitude Observations at the Main Astronomical Observatory of the Academy of Sciences USSR (Freyberg-Kondrat'yev Zenith-Telescope)

7

Tsvetushenko, Ye. I., I. P. Ogoreodnik, and O. V. Chaprunova. Observations of Talcott Pairs at the Poltava Gravimetric Observatory of the Ukrainian Academy of Sciences (Zeiss Zenith-Telescope)

9

Popov, N. A. Observations of Bright Zenith Stars at the Poltava Gravimetric Observatory of the Ukrainian Academy of Sciences (Zeiss Zenith-Telescope)

13

Card 2/5

OGORODNIK, I.P.; YEVTSHENKO, Ye.I.; CHUPRUNOVA, O.V.

Latitude variations at Poltava based on observations
performed on the Zeiss zenith telescope during the period
June 1956 through May 1957. Trudy Polt. grav. obser.
11:104-110 '62. (MIRA 15:11)
(Poltava—Latitude variation)
(Telescope, Zenith)

CHUPHYAKOV, M., starshiy tekhnolog

Standardization of parts in ship repairing with the use
of adapter sets. Mor. flot 23 no.9:38-39 S '63.
(MIRA 16:11)

1. Rukovoditel' soveta novatorov Kaliningradskogo basseyna.

CHUPRYAKOV, M., starshiy tekhnolog

From this depends technical progress in ship repairs. Mor. flot
22 no.5:30 My '62. (MIRA 15:5)
(Merchant ships--Maintenance and repairs)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

CHUPRYAKOV, M., starshiy tekhnolog

Use of mechanical power heads. Mor. flot. 24 no.11;30-31
N '64. (MIRA 18;8)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

CHUPREJKOV, M. Ya.

Further specialization in ship repair. Sudostroenie 27 no.10:58
59 0 '61. (MIRA 14:12)
(Ship--Maintenance and repair)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

CHUPRYAKOV, M.Ya.

Modernization of turning lathes. Sudostroenie 28 no.3:54 Mr
'62.
(MIRA 15:4)
(Metalworking machinery)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

PETROSYAN, P.P., doktor tekhn.nauk; OVCHAROV, V.P., inzh.; CHUPRYNIN,
F.I., inzh.

Treatment of cast iron in an atmosphere of steam. Metalloved.
i term. obr. met. no. 5:40-41 My '60. (MIRA 13:12)

I. Khar'kovskiy institut inzhenerov zheleznodorozhnogo
transporta.
(Cast iron--Metallography) (Metallic films)

CHUPRYANIN, F.I.

Journal of the Iron and Steel Institute
Vol. 176
Apr. 1954
Metallography

Apparatus for X-Ray Structural Analysis. I. E. Dudavaki
and F. I. Chupryanin. (Zavodskaya Laboratoriya, 1950, 16,
(8), 948-955). [In Russian]. A new design of X-ray camera
of wide applicability, with considerably reduced exposure
times, is described. Provision is made for the use of mono-
chromatic beams and for exposures in focus.—s. x.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

GINZBURG, M.Ya.; CHUPRYNIN, B.Ye.

Device for recording the θ angle of synchronous machines. Trudy
ENIN AN Azerb. SSR 13:117-122 '56. (MLRA 10:4)
(Electric motors, Synchronous)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

CHUPRYNIN, V.

A forgotten monocle. Sov.foto 18 no.11:28-31 N '58.
(MIRA 11:12)
(Lenses, Photographic)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

CHUPRYNINA, A. A., Cand Med Sci (diss) -- "The reactivity of the hematopoietic system in dysentery of young children". Tomsk, 1959, published by Tomsk U. 17 pp (Min Health RSFSR, Tomsk State Med Inst), 200 copies (KL, Noll, 1960, 139)

G7

✓ Magnesian magnetite as an indicator for the depths of ore deposition. N. V. Pavlov and I. I. Chuprymina. *Doklady Akad. Nauk S.S.R.* 104, 249-301 (1955).—Magnesian magnetite (I), typical for the Fe ores of the endogenic middle-Siberian deposits, is a differentiation product of a basic (trap) rock. The chem. compn. of I changes regularly with the depth in which it was formed. I from surface fumaroles of Mt. Vesuvius or Stromboli does not contain Fe(II), all 8 positions in the elementary cell being occupied by Mg (magnesioferrite). Deposits near the surface (in depths of 350-400 m.) connected with basic intrusions (e.g., those of the River Khatang basin, River Lower Tunguski, and River Ilimpe ya basins) contain 4.9-5.0 atoms Mg and 2.4-3.1 atoms Fe(II). Further, deposits of the Angaro-Ilimsk area (Rudnogorsk, Krasnoyarsk, Kezhemskoe, etc.), of depths between 800 and 1000 m., which are derived from rather removed basic intrusions, contain 1.25-2.45 atoms Mg, 5.55-6.75 atoms Fe(II), 0.05-0.40 atoms Ti, and 1.5-3.5 atoms Al. The I deposits occurring in the contacts of gabbro-diorite intrusions with limestones are typical for depths of 1600-1800 m.; the Fe ores of Tunguski, Teiskoe, and Anakit are characterized by only 0.7-1.25 atoms Mg, 8.75-7.3 atoms Fe(II), 0.1-0.9 atoms Ti, and 0.35-2.0 atoms Al. The O potential was highest in the medium which formed the Mg-rich magnesioferrite and lowest in the deep-seated contact-metasomatic mineralizations which contain Mg in the magnetite structure only in very low amts. W. Etel

PONOMAREVA, M.N.; PAVLOV, N.V.; CHUPRYNINA, I.I.

Determining the composition of some mineral species of chrome
spinel group by their reflection data. Geol. rud. mestorozh.
6 no.3&103-106 My-Je '64 (MIRA 18:1)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mine-
ralogii i geokhimii AN SSSR, Moskva.

CHUPRYNINA, A.A.

Some clinical observations of colenteritis in children.
Trudy TomNILVS 14:76-79 '63. (MIKA 17:?)

1. Tomskiy meditsinskij institut.

PAVLOV, N.V.; CHUPRYNINA, I.I.

Comparative study of endogenetic mineralization of kimberlites in
the Daldyn River and iron-ore pipes in the Angara-Ilim region.
Izv. AN SSSR. Ser. geol. 25 no.10:41-53 O '60. (MIRA 13:10)

1. Institut geologii rudnykh mestorozhdeniy, petrografii mineralogii
i geokhimii AN SSSR, Moskva.
(Daldyn Valley—Kimberlite)
(Angara Valley—Iron ores)

2367 Chuvryina, N.M.

Uchod Za Zubami. (Dlya Roditeley). Sverdlovsk, 1954. 15s. 12sm. (Sverdl.
OVL. Dom San. Prosveshcheniya). 10.000 IKZ. B. Ts. -- AVT. Ukazen V
Kontse Teksta. -- (54-54277)

616.314-033.2-083

MIGUNOV, Prof. B.I.; KOLESNEVA, Z.G.; CHUPHNINA, N.M.

Eosinophilic granuloma of the jaws. Stomatologija no.3:29-33
My-Je '55.

1. Iz kafedry patologicheskoy anatomii (zav.prof B.I.Migunov)
i kafedra terapevticheskoy i khirurgicheskoy stomatologii
Moskovskogo meditsinskogo stomatologicheskogo instituta
(dir.dotsent, G.N. Beletskiy)
(EOSINOPHILIC GRANULOMA,
jaws)
(JAWS, neoplasms,
eosinophilic granuloma)

USSR / Human and Animal Morphology, Normal and Pathological
Digestive System.

S-1

Abs Jour : Ref Zhur - Biol., No 18, 1958, No 83591

Author : Chuprynska, N. M.
Inst : Not given - ON LAST PAGE.....
Title : Clinico-Radiological Study of the Alveolar Process of the
Mandible in Several Types of Bites in Individuals Ranging
in Age from 7 to 18 years.

Orig Pub : Stomatologiya, 1957, No. 4, 6-11

Abstract : A study was made of the radiograms of the alveolar pro-
cess in 600 individuals ranging in age from 7 to 18 years.
With completion of dental eruption, there appear individ-
ual peculiarities in the structure of the apices of the
intradental occlusions and in the pattern of the spongioid
substance, while the completion of the formation of the
root marks the end of the formation of the cortical mem-
brane and of the periosteal aperture. With growth, the

Card 1/3

USSR / Human and Animal Morphology, Normal and Pathological.
Digestive System.

S-1

Abs Jour : Ref Zhur - Biol., No 18, 1958, No 83591

cuspid and the bifurcated apices of the occlusions meet more and more infrequently, while the rounded ones meet more and more frequently. The apex of the occlusions is more frequently found at the level of the enamel-cemental border. The pattern of the spongioid substance in the region of the multi-root teeth usually has the appearance of small ansae at the apices of the occlusions, and of larger ansae at the apices of the dental roots. An indistinct pattern of the spongioid substance in the nature of ansae of varying sizes, as also increased transparency of the spongioid substance of the pulp are to be found more frequently in the case of an open bite, excessive development of the maxilla, and the absence of contact between the anterior teeth (prognathism in connection with an open bite.)

Card 2/3

1

USSR / Human and Animal Morphology, Normal and Pathological.
Digestive System.

S-1

Abs Jour : Ref Zhur - Biol., No 18, 1958, No 83591

The indistinctiveness of the compact membrane, the flattening of the apices of the occlusions in the region of the frontal teeth, and the lowering of their level, are more often met with in the case of a deep bite. -- N. G. Turkevich.

INSTITUTE — Iz KAFEDRY TERAPEUTICHESKoy STOMATOLOGII i KAFEDRY ORTOPEDICHESKoy STOMATOLOGII, Moskovskogo MEDITSINSKOGO STOMATOLOGICHESKOGO INSTITUTA.

Card 3/3

CHUPRYNINA, N.M., Cand Med Sci--(disr) "Clinico-roentgenological
alveolar process
study of ~~the processes~~ alveolaris of the lower jaw in certain types
of bite in individuals from 7 to 18 years of age." Nos, 1958. 12 pp
(Min of Health RSFSR. Nos Med Stomatological Inst), 200 copies
(ML,22-58,116)

-143-

CHUPRYNINA, N.M., assistant

Observation of the dynamics of the alveolar process in children and adolescents with various types of bite. Stomatologija 38 no.6:13-15 N-D '59.
(MIRA 13:4)

1. Iz kafedry terapevticheskoy stomatologii (zaveduyushchiy - prof. Ye.Ye. Platonov) i kafedry ortopedicheskoy stomatologii (zaveduyushchiy - prof. V.Yu. Kurdyandskiy) Moskovskogo meditsinskogo stomatologicheskogo instituta (direktor - dotsent G.N. Beletskiy).
(TEETH)

CHUPRYNINA, N.M., assistent

Frequency of dental caries caused by different forms of
occlusion. Teor. i prak. stom. no.5:217-221 '61 (MIRA 16:12)

1. Iz kafedry terapevticheskoy stomatologii (zav. - prof.
Ye.Ye. Platonov) Moskovskogo meditsinskogo stomatologiches-
kogo instituta.

CHUPRYNINA, Nina Mikhaylovna, kand. med. nauk; GROSHIKOV, M.I.,
dots., nauchn. red.; MALAYA, M.I., red.

[Roentgenograms of the teeth and the alveolar process
under normal conditions and in pathology in children;
an atlas] Rentgenogrammy zubov i al'veoliarnogo otrostka
v norme i patologii u detei; atlas. Moskva, Izdatbiuro
tresta Meduchposobie, 1964. 146 p. (MIRA 17:12)

CHUPSHENA, L.

Freight indexes. Vnesh. torg. 27 no. 7-29-33 '57. (MLRA 10:8)
(Freight and freightage)

TUCHINA, V.S.; CHUPSHEVA, L.G.; SHIROKOV, S.I., red.; LAZAREVA, L.I.,
red. Izd-va; USANOVA, N.B., tekhn. red.

[Merchant marine and freight indices] Torgovoe sudokhodstvo i
frakhtovye indeksy. Moskva, Izd-vo "Morskoi transport,"
1962. 221 p. (MIRA 16:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut morskogo
flota (for Tuchina). 2. Gosudarstvennyy proyektno-
konstruktorskiy i nauchno-issledovatel'skiy institut morskogo
transporta (for Chupsheva).

(Merchant marine--Statistics)
(Index numbers (Economics))

8(0)

SOV/112-59-2-2943

Translation from: Referativnyy zhurnal. Elekrotekhnika, 1959, Nr 2, p 97 (USSR)

AUTHOR: Chupyatov, I. N., and Bayko, V. F.

TITLE: Two-Commutator Amplidyne

(Dvukhkollektornyy elektromashinnyy usilitel')

PERIODICAL: Sb. Leningr. in-ta inzh. zh.-d. transp., 1957, Nr 155, pp 832-894

ABSTRACT: The operating principle of a new amplidyne, referred to in foreign publications as a magnavolt, is described. The magnavolt comprises a frame with magnetic poles and an armature in whose slots two windings with a different number of poles are laid. Each armature winding has its commutator. The magnavolt magnetic circuit is actually a combination of the magnetic circuits of two machines with a different number of poles (the ratio of pole numbers is always two). The basic circuit diagram of the magnavolt is presented. Input voltage U_{vh} is applied to a control-stage winding that encompasses all four poles and creates a two-pole magnetization (N-N-S-S).

Card 1/2

SOV/112-59-2-2943

Two-Commutator Amplidyne

The second-stage control winding fed by the two-pole armature winding is situated on the same four poles and creates a four-pole magnetization (N-S-N-S). Output voltage U_{vykh} is derived from the four-pole armature winding. Simplified transient equations of the magnavolt are presented, as well as the results of investigation of a model amplidyne. The operating principle of another magnavolt type, with 3 stages, is described.

B.Ya.G.

Card 2/2

CHUPYATOV, I. N.

CHUPYATOV, I. N., dots.; RAYKO, F., kand. tekhn. nauk.

Magnavolt exciter. Elektrichestvo no.1:1-5 Ja '58. (MIRA 11:2)

1. Leningradskiy institut inzhenerov zheleznodorozhного transporta
im. Obraztsova.

(Rotating amplifiers)

ALEKSEYEV, A.Ye., prof.; BAYKO, V.F., kand.tekhn.nauk; BOLDYREV, G.L., inzh.; NORNEVSKIY, B.I., kand.tekhn.nauk, dots.; ROSIN, Ye.I., inzh.; CHUPYATOV, I.N., kand.tekhn.nauk, dots.

Internal feedbacks in multistage amplifiers with various numbers
of terminal pairs. Sbor.LIIZHT no.159:232-235 '58.

(MIRA 12:2)

1. Chlen-korrespondent AN SSSR (for Alekseyev).
(Rotating amplifiers)

CHUPYATOV, I.N., kand.tekhn.nauk; BAYKO, V.F., kand.tekhn.nauk

Using electric braking in diesel locomotives. Sbor.LIIZHT
no.167:103-121 '59. (MIRA 13:5)
(Diesel locomotives) (Railroads--Brakes)

CHURA, A.J.

Analysis of acute rheumatism in children. Lek.listy 5 no.21:625
-630 1 Nov 50.
(CLML 20:5)

1.Stalinovo nam. 29, Trenčín.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

CHURA, A.J.; SIKULA, L.; SITAY, S.; PRONAY, K.

Effect of streptomycin in acute rheumatism in children. Lek. listy, Brno
6 no.21:648-654 contd. 1 Nov 51.
(CIML 21:4)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

CHURA, A.J.; SIKULA, L.; SITAY, S.; PRONAY, K.

Effect of aureomycin on acute rheumatism in children. Lek listy, Brno
6 no.22:682-685 concl. 15 Nov 51. (CLML 21:4)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

CHURA, A.J.; SIKULA, L.; GETLIK, A.; OPOLDUS, J.

Virocytes and cytoplasmic inclusion in acute infectious rheumatism
and in other infectious diseases in children. Cas. lek. cesk. 92 no.15:
390-398 10 Apr 1953. (CIML 24:4)

1. Of the Pediatric Department of OUNZ (Head--Prof. A. J. Chura, M.D.),
Trencin and of the Pediatric Rheumatologic Department (Head--L. Sikula,
M. D.) of the Therapeutic Institute in Trencianske Teplice.

Pediatrics

CZECHOSLOVAKIA UDC 616.216.1-002:616.131-008)-053.2

CHURA, A.J.; Pediatric Research Station at the 1st Pediatric Department (Pediatricke Vyzkumne Pracovisko pri I. Detskom Odde- leni) Head (Vedouci) Prof Dr A.J. CHURA, Okresni Institute of National Health (OUNZ), Trencin.

"Maxillary Sinusitis and Pulmonary Circulation in Children."

Prague, Casopis Lekaru Ceskych, Vol 105, No 48, 2 Dec 66, pp 1307 - 1310

Abstract [Author's English summary modified]: A 5 year study including 782 children hospitalized for maxillary sinusitis is presented. In 20% healing started after 3 weeks, in another 23% after 3 more weeks. Average children living in towns and villages were examined to study their maxillary sinuses; of 454 children, 271 had pathological changes. In another group of 108 children in kindergarten schools, 66 had an inflammation of maxillary sinuses. In 2845 children hospitalized for respiratory affections without sinusitis prominence of pulmonary artery was found in 10%; in 753 children hospitalized for maxillary sinusitis, similar findings were made in 5%. 6 Western, 4 Czech 1 Russian 2 Hungarian references. (Ms. rec. Apr 66).

CHURA, V.

Electrical Engineering Abstracts
June 1954
Electrical Engineering

2
621.3.015.533
2274. Surface discharges. V. CHURA. Elektrotech.
Obzor, 42, No. 5, 248-57 (1953) In Czech.

Discusses existing theories of the discharge and the
effects of field form, applied voltage as function of
time, properties of the insulating material, effect of
screens and gas pressure.

CHURA, V.

Electrical Engineering Abstracts
May 1954
Transformers

1915. The part played by the resistance of the ground

In the attenuation of voltage surge waves. V. CHURA,
Elektrotech. Obzor, 42, No. 6, 317-24 (1953) in Czech.

The resistance of the ground plays an important part in the dissipation of the electromagnetic energy of voltage surge waves on transmission lines without earth conductors. The relationships arrived at by Carson are simplified and a simple method is developed for calculating the effect of the resistance of the ground on the wave front. The validity of this method has been confirmed by results of measurements on Swedish transmission lines. The effect of the ground is the greater the lower the line, the greater the resistivity of the ground and the shorter the back of the wave; it is greater for multiphase than for single-phase surges, and in the latter case increases with the diameter of the conductor.

H. NORET

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

ČHURA, V.

"Gradient on the surface of the conductor of a cable."
Elektrotechnicky Obzor, Praha, Vol 42, No 11, Nov 1953, p. 620

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

Chura, VLADIMIR

Czechoslovakia/Electronics - Gas Discharge and Gas-Discharge Instruments, H-7

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35175

Author: Chura, Vladimir

Institution: None

Title: On the Theory of Sliding Discharges

Original
Periodical: Electrotechn. obzor, 1956, 45, No 1, 21-24; Czech; Russian, French,
German, and English resumés

Abstract: Discussion of the problem of calculating the equivalent circuits for sliding discharges. It is shown that the equations for the initial voltages of the corona discharge and of the sliding clusters can be derived theoretically without taking into account the capacity between the elements of the insulating surface, which has no definite physical meaning. In the new equivalent circuits proposed by the author, this shortcoming is eliminated and the results obtained with them is in agreement with the experimental data. An expression is derived for the calculation of the parameters of the equivalent

Card 1/2

Czechoslovakia/Electronics - Gas Discharge and Gas-Discharge Instruments, H-7

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35175

Abstract: circuit for determining the initial voltage of the glow discharge, taking into account the form of the electrodes. It is noted that the initial voltage of the sliding discharges is independent of the shape of the electrodes. The results obtained lead the way to its further investigation [redacted] the field of sliding discharges. The author emphasizes particularly the possibility of theoretically predicting the laws for geometrically-similar sliding systems. Bibliography, 5 titles. See also Referat Zhur - Fizika, 1955, 17012.

Card 2/2

CHURA, V.

Inductivity of a long flat coil with rectangular profile. Tr. from the German.
p. 521.
(Elektrotechnicky Obzor, Vol. 45, no. 10, October 1956. Czechoslovakia)

SO: Monthly List of East European Accessions. (EEAL) LC. Vol. 6, No. 6,
June 1957. Uncl.

CHURA, V.

Plans for the electric equipment of the third blast furnace in the Nova Hut
Metallurgical plant of Klement Gottwald, p.154.
(Elektrotechnik, Vol. 12, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

CHURA, V.

"Voltage drop at rail-type crane trolleys."

Elektrotechnicky Obzor. Praha, Czechoslovakia. Vol. 47, no. 10, Oct. 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclassified

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

CHURA, Vladimir, doc., inz., kandidat technickych ved; Was, Ladislav

Electronic overvoltage recorder in industrial networks.
El tech obzor 51 no.1:6-8 Ja '62.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

CHURA, V., doc., inz., kandidat technickych ved.

Apparatus for photoelectric loop measurement on continuous mill
trains. El tech obzor 51 no.7:368-369 J1 '62.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

CHURA, Vladimir, doc., inz.

Hydromagnetic condenser. Elektrotechnik 18 no.6:170 Je '63.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

CHURA, V., doc., kandidat technickych ved

Static 50/150 Hz frequency changer for asynchronous motor
feeding. El tech obzor 52 no.5:257 My '63.

CHURA, Vladimir, doc., inz., kandidat technickych ved

Phenomena caused by rectifiers in a three-phase system. El
tech obzor 52 no.4:207-208 Ap '63.

CHURA, V., doc., inz., kandidat technickych ved

High-frequency heavy-current engineering, a new branch of heavy-current engineering? El tech obzor 52 no.6:327-328 Je '63.

CHURA, Vladimir, doc., inz.

Prevention of compensating currents in the circuits of rectifiers
which are operating in a cross or antiparallel connection. El
tech obzor 52 no.6:317-318 Je '63.

CHURA, Vladimir, doc., inz., kandidat technickych ved

Individual drive of rollers in feeding rolling-mill engines
from mercury rectifiers. El tech obzor 52 no.7:384-385
Jl '63.

CHURA, Vladimir, doc., inz.

Drive and automatic control of the winder of a cold rolling line; solution of the Brown Boveri Company in 1961. El tech obzor 52 no.8:440-442 Ag '63.

PHASE I BOOK EXPLOITATION

SOV/5824

Churabo, Dmitriy Dmitriyevich

Novyye nemetallichесkiye materialy dlya radioapparatury; spravochnoye posobiye dlya konstruktorov (New Nonmetallic Materials for Radio Equipment; Manual for Designers) Moscow, Gosenergoizdat, 1961. 335 p. 15,000 copies printed.

Ed.: O. D. Parfenov, Candidate of Technical Sciences; Tech. Ed.: N. I. Borunov.

PURPOSE: This book is intended for designers, technicians, and workers concerned with the use of nonmetallic materials. It may also be used as a handbook for students of schools of higher learning and technical schools.

COVERAGE: The handbook briefly describes and gives uses and fundamental physicomechanical data on plastics, molding powders, molding compounds and resins, glass-reinforced plastics, ceramics, glasses, rubbers and latices,

Card ~~34~~

New Nonmetallic Materials for Radio (Cont)

SOV/5824

glues, film-forming materials, enamels, lacquers and primers, treated cloths, papers and tubing used for electric insulating. Instructions and standards for technical use of parts made from these materials are given. The composition and structure of the materials are discussed, and a trademark index is included in the appendix. No personalities are mentioned. There are 6 references, all Soviet.

TABLE OF CONTENTS:

Preface	3
Section One. Plastics	15
A. Structural plastics	16
B. Electric-insulating plastics	33
C. Plastics for high-frequency apparatus	52
D. Heat-resistant plastics	77
E. Absorbent plastics	85
F. Plastics for various purposes	87

Card 2/4

CHURABO, Dmitriy Dmitriyevich; MALOV, A.N., kand. tekhn. nauk, retsenzent;
KRIMERMAN, M.N., inzh., red.; YELISEYEV, M.S., red. izd-va; EL'-KIND, V.D., tekhn. red.

[Parts and units of instruments; design and construction manual]
Detali i uzly priborov; konstruirovaniye i raschety. Spravochnoe posobie. Izd.2., ispr. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 518 p. (MIRA 14:9)
(Instruments—Design and construction)

CHURABO, Dmitriy Dmitriyevich; KRIMERMAN, M.N., red.; BUL'DYAYEV,
N.A., tekhn. red.

[Design of radio components and assembly units] Konstruirovaniye detalei i uzlov radioapparatury. Moskva, Gosenergoizdat, 1963. 439 p.
(MIRA 16:4)
(Radio—Equipment and supplies)

CHURABO, Dmitriy Dmitriyevich; MALOV, A.N., kand. tekhn. nauk
retsenzent; SHANLOVSKIY, Yu.V., inzh., red.

[Parts and units of instruments; their design and construction. A handbook] Detali i uzly priborov; konstruirovaniye i
raschety. Spravochnoe posobie. Moskva, Mashinostroenie,
1965. 710 p. (MIRA 18:12)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

CHURACEK, J.

Symposium on micropreparation technique. Chem listy 57 no.9;
1009 S '63.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

CHURACEK, J.

Symposium on the micropreparation technology and identification of organic substances. Sbor VSChT Pardubice 1/2 156-157 '62 [publ. '63].

Z/008/60/000/09/001/002
E142/E535

AUTHORS: Jeník, Josef and Churáček, Jaroslav

TITLE: Weighing of Very Volatile Substances which are
Unstable on Air ✓

PERIODICAL: Chemické listy, 1960, No.9, pp.966-967

TEXT: Considerable difficulties are encountered when
weighing very volatile substances which oxidize or hydrolyze
easily on exposure to air. This applies especially to organo-
silicon compounds which are strongly hydrolyzed by air humidity.

During the micro-determination of silicon in organosilicon
compounds the authors weighed alkyl and aryl halosilanes by
using a hypodermic syringe and injecting the substance into a
polyethylene capsule (length 15 mm, height 1 mm) and weighing
the capsule on a micro-balance. The method can also be used for
the analysis of oxygen, halogens, etc. Acknowledgments are
expressed to Professor Engineer Doctor M. Jurečka for his useful
comments and advice. There are 4 Czech references.

ASSOCIATION: Katedra analytické chemie, Vysoká škola chemicko-
technologická, Pardubice (Chair of Analytical Chemis-
try, University for Chemistry and Technology, Pardubice)
Card 1/1

SUBMITTED: April 6, 1960

CHURACEK, Jaroslav; VANEK, Jaroslav

Identification of carboxylic acids. Pt. 4. Sbor VSChT
Pardubice no.1:61-74 '63.

1. Chair of Analytical Chemistry, Higher School of Chemical Technology, Pardubice.

CHURACEK, Jaroslav

"Symposium on the apparatus and technique for detection and determination of pesticidal substances and their remains in food and fodder." Reviewed by Jaroslav Churacek. Chem zvesti 14 no.10:561 O '64.

1. Chair of Analytic Chemistry, Higher School of Chemical Technology, Pardubice.

CHURADZE, G.O.

Organization of antituberculosis care in rural area. Probl.
tub. 36 no.7:29-31 '58. (MIRA 12:8)

1. Iz sel'skogo rayonnogo protivotuberkuleznogo dispansera
(Lagodekhi, Gruzinskaya SSR).
(LAGODEKHI DISTRICT--TUBERCULOSIS--PREVENTION)

CHURADZE, T.A.

Study of pathological architectonics of the central nervous
system in experimental pneumonia. Soob. AN Cruz. SSR 34 no.33
695-702 Je '64 (MIRA 18sl)

1. Submitted December 7, 1963.

CHURAEV, N.

Investigations of water properties, structure and damp transfer
processes in dispersive systems by means of the traced atoms method.
Postupy nauk roln 8 no.4:79-92 Jl-Ag '61.

L 1159-66 EWT(1)/EWT(m)/EPF(c)/EPF(n)-2/EWA(d)/EWP(t)/EWP(k)/EWP(b)/EWA(c) IJP(c)
ACCESSION NR: AP5021893 JD/WW/HW/GG UR/0020/65/163/006/1437/1438

AUTHORS: Churagulov, B. R.; Feklichev, Ye. M.; Kalashnikov, Ya. A.; Vereshchagin,
L. F. (Corresponding member AN SSSR)

TITLE: Differential-thermal analysis at pressures up to 100 k bar

SOURCE: AN SSSR. Doklady, v. 163, no. 6, 1965, 1437-1438

TOPIC TAGS: cerium, barium, bismuth, silver chloride, pressure, solid state
transition, thermal analysis

ABSTRACT: A differential-thermal analysis method has been developed by means of which solid state transitions may be studied. The apparatus is shown schematically in Fig. 1 on the Enclosure. The method was applied to the study of phase transitions in Bi, Ce, Ba, and AgCl. The thermograms obtained are given in Fig. 2 on the Enclosure. It is suggested that the method may be used for high pressure calibration. Orig. art. has: 2 graphs and 1 equation.

ASSOCIATION: Institut fiziki vysokikh davleniy, Akademii nauk SSSR (Institute of Physics for High Pressures, Academy of Sciences SSSR); Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University)

SUBMITTED: 24Mar65

ENCL: 02

SUB CODE: ME,

NO REF SOV: 007

OTHER: 002

TD

Card 1/3

L 1159-66

ACCESSION NR: AP5021893

ENCLOSURE: 01

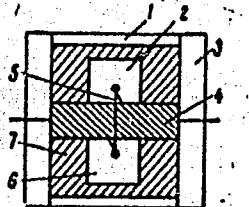


Fig. 1.

Schematic of the introduction of differential thermocouples into the high pressure chamber

1- talcum cover; 2- metallic Bi; 3- talcum isolating screen;
4- teflon and talcum washer; 5- differential chromel-alumel
thermocouple; 6- specimen; 7- pressure transducing substance

Card 2/3

L 1159-66

ACCESSION NR: AP5021893

ENCLOSURE: 02

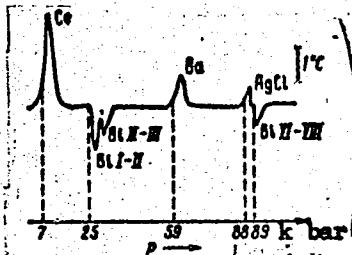


Fig. 2.
Composite thermogram for the different substances

Card 3/3

CHURAGULOV, M.B. (g. Chelyabinsk)

In ballast quarries located near the Southern Ural Railroad.
Put' i put.khos. no.10:31-32 O '58. (MIRA 11:12)
(Ural Mountain region--Quarries and quarrying)
(Ballast (Railroads))

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

CHURAIN, Oldrich

Annual complex analysis. Letecky obzor 5 no.12:373 D '61.

(Air lines)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

CHURAIN, Oldrich

New management system and its application on Czechoslovak Air-lines. Letecky obzor 9 no.2:30-31 F '65.

KOSTYUCHENKO, K.A.; CHURAK, V.L.; GENINA, B.A.

Furniture manufactured from bent and glued subassemblies. Der.prom.
11 no.2:22-23 F '62. (MIRA 15:1)

1. TSentral'nyy nauchno-issledovatel'skiy institut fanery i mebeli.
(Furniture)

CHURAKAYEV, A.

Operation of gasoline plants. Neftianik 5 no.11:14-15 N '60.
(MIRA 13:11)

1. Neftepererabatyvayushchiy zavod, g.Polotsk.
(Polotsk region--Petroleum refineries)

CHURAKAYEV, A.M.

Data on benzine removal from casing-head gas by the method of
oil absorption. Gaz. prom. no.9:45-49 S '58. (MIRA 11:10)
(Absorption) (Gasoline) (Distillation, Fractional)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

CHURAKAYEV, Anas Mirgaliyevich; PLETNEV, K.N., red.; LEVINA, Ye.S.,
ved. red.; POLOSINA, A.S., tekhn. red.

[Stripper plants] Gazootbenzinivaiushchie ustanovki. Moskva,
Gostoptekhizdat, 1962. 141 p. (MIRA 15:7)
(Gas, Natural) (Gasoline)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

L 20268-65 AMD
ACCESSION NR: AR4045871

8/0299/64/000/014/M024/M025

LANG: def. zh. Biologiya. Svodnyy tom, Abs. 14M160

AUTHOR: Churakayev, V. D.

TITLE: Embryonic pancreas transplantation in pancreatectomized animals

CITED SOURCE: Sb. 3 Vses. konferentsiya po peresadke tkanej i organov, 1963. Yerevan, 1963, 492-493

TOPIC TAGS: rat, pancreas, transplantation, homotransplantation, tissue, preservation

TRANSLATION: Ground embryonic pancreas was homotransplanted to the abdominal cavity and under the skin of 14 pancreatectomized rats. Transplanted pancreatectomized rats lived 5-71 days, whereas control pancreatectomized rats lived 3-9 days. Eleven rats received pancreas implants, preserved at -196°C and treated earlier with a 15% glucose solution. No reliable data were found to show that a preserved transplant prolongs life.

Card 1/2

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

L 20268-65

ACCESSION NR: AR4045871

SUB CODE: LS

ENCL: 00

Card 2/2

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

CHURAKAYEV, V.D.

Methodology for complete pancreatectomy in rats; production of a model of diabetes mellitus in rats. Probl. endok. i gorm. 10 no.4:101-104 Jl-Ag '64. (MIRA 18:6)

1. Kafedra khirurgii №.2 (zav... prof. M.M. Lyakhovitskiy) Ukrainskogo instituta usovershenstvovaniya vrachey i otdel patofiziologii (zav... prof. S.G. Genes) Ukrainskogo instituta eksperimental'noy endokrinologii (dir... S.V. Maksimov), Khar'kov.

CHURAKOV, A.

At the expense of the internal reserves... Sov.profsoiuzy
16 no.10:28-30 My '60. (MIRA 13:6)

1. Zamestitel' predsedatelya zavkoma profsoyuza Stalinskogo
metallurgicheskogo zavoda, Donbass (for Churakov). 2. Predsedatel'
komiteta profsoyuza martenovskogo tsentral'nogo metallurgi-
cheskogo zavoda, Donbass (for Khachaturov).
(Stalino--Steel industry) (Hours of labor)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6

Churakov, A.A.

CHURAKOV [REDACTED]

Hydrants with suspension valves. [Suggested by A.A. Churakov].
Rats.i izobr.predl.v stroi. no.148:15-16 '56. (MIRA 1075)
(Hydrants)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000509120017-6"

L 18751-66 EWT(1)/EWP(e)/EWT(m)/T IJP(c) GG/WH

ACC NR: AP6003774

SOURCE CODE: UR/0181/66/008/001/0131/0133

AUTHORS: Gol'denberg, S. U.; Churakov, A. F.

ORG: Tomsk Polytechnic Institute im. S. M. Kirov (Tomskiy politekhnicheskiy institut)

TITLE: Production of filamentary NaCl and KCl crystals from the gas phase

SOURCE: Fizika tverdogo tela, v. 8, no. 1, 1966, 131-133

TOPIC TAGS: fiber crystal, sodium chloride, potassium chloride, single crystal growth, crystal dislocation phenomenon

ABSTRACT: In view of the increasing interest in the growth conditions, structure, and properties of whisker crystals of various substances, the authors describe a procedure for growing such NaCl and KCl crystal from the gas phase in a tubular quartz oven. The required large temperature gradient is produced in the oven by an irregular arrangement of the heating coil. The temperature at the hottest point was 650°C and dropped off rapidly on either side. The whiskers

Card 1/2

35
34
B

L 18751-66

ACC NR: AP6003774

were grown from powdered salt in a quartz tube, on porcelain plates, on wires, and on porcelain tubes. The maximum whisker length was 7 -- 8 mm, and the thickness ranged from several to 30 or 40 μ . Some whiskers were smooth, others had a sawtooth shape. A study of the dislocation structure by selective etching has shown that most whiskers had no dislocations; any dislocations that were produced were due to improper handling. The authors thank I. Ya. Melik-Gaykazyan for continuous interest. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 05Ju165/ ORIG REF: 002/ OTH REF: 007

Card

212 3m/